

## 'IN-KIND' CONSTRUCTION

More and more water systems are requesting authorization from ADEM to construct projects 'in-kind', or by using local or in-house resources. This is fine for some systems, but many others have had major problems leading to uncompleted projects, unacceptable construction, or unreal construction time. To form a rational basis for analyzing such requests, the following conditions are proposed as prerequisites to obtaining approval from ADEM to perform 'in-kind' construction:

1. The water system must have a proven track record on previous 'in-kind' projects attempted.
2. Work will be limited to construction of mains and services.
3. Systems must submit to ADEM evidence that it has the necessary manpower, equipment, time, and expertise (know-how and experience), to provide a full-time crew for the project.
4. Projects must be completed in a time frame comparable to time needed by a licensed contractor.
5. Construction crews must have the necessary licenses or permits to accomplish the work.
6. Work must be accomplished in accordance with specifications and drawings prepared and stamped by a Registered Professional Engineer.
7. The water system must possess adequate liability insurance to cover damages to personal property, rights-of-way, and existing utilities.
8. Properly prepared progress reports, project completion forms, and, as-built drawings must be submitted prior to using newly constructed water lines.
9. Pressure tests and leakage tests shall be performed by the design engineer or by a licensed contractor designated by him.
10. Results of pressure tests, leakage tests, and disinfection shall be submitted to ADEM for review and approval prior to using newly constructed water lines. Pressure test data shall be recorded on circular chart paper designed for that purpose. Leakage calculations shall compare allowable leakage with actual leakage.
11. **Project may not start until a permit has been issued by ADEM for the project.**